	Application No.	Applicant(s)
Notice of Allowability	10/826,354	OTOMA, HIROMI
	Examiner	Art Unit
	Chuc D. Tran	2821
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to August 16, 2006.		
2. The allowed claim(s) is/are <u>1-22.</u>		
 3.		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 		
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☑ Interview Summary Paper No./Mail Dat 8), 7. ☑ Examiner's Amendr	1e \$19312006.
t		Princy Examiner

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DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Paul Tsou, Reg: 37,956, Tel: 703-836-6400 on August 23, 2006.

The application has been amended as follows:

Claim 4, line 2, "claim 1" has been changed to - - claim 2 - -;

Claim 11, line 2, "claim 8" has been changed to -- claim 9 --;

Claim 17, line 14, "a current" has been changed to - - the current - -;

Claim 20, line 16, "a current" has been changed to - - the current - -.

Drawings

2. The drawings were received on 04/19/04, 02/21/06 and 08/16/06. These drawings are accepted.

Response to Amendment

3. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Allowable Subject Matter

4. Claims 1-22 are allowed.

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Reasons for allowance

5. The following is an examiner's statement of reasons for allowance:

Regarding claims 1 and 8, prior art Takahashi fails to disclose or fairly suggest, in combination with the remaining claimed limitations, a low resistance layer interposed between the current confining layer and the active region.

Claims 2-7 and 9-14 are allowed since they are dependent on claims 1 and 8.

Regarding claim 15, prior art Takahashi fails to disclose or fairly suggest, in combination with the remaining claimed limitations, a low resistance layer provided in the vicinity of the current confining layer and comprising AlxGa1-xAs, the second semiconductor multilayer reflection film comprising AlaGa1-aAs and AlbGa1-bAs, composition ratios a, b and x meet a > x > b.

Claim 16 is allowed since it is dependent on claim 15.

Regarding claims 17 and 20, prior art Takahashi fails to disclose or fairly suggest, in combination with the remaining claimed limitations, a method of forming a current confining layer by oxidizing a part of the high-Al-composition-ratio layer from a side surface of the mesa structure to thus form the current confining layer.

Claims 18-19 and 21-22 are allowed since they are dependent on claims 17 and 20.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuc D. Tran whose telephone number is (571) 272-1829. The examiner can normally be reached on M-F Flex hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan can be reached on (571) 272-1740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TC August 25, 2006

The paper Protag Examiner

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